

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Frolund et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: METHODS OF READING AND WRITING DATA

COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EU872540188US**

Date of Deposit **10/23/2003**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By

Typed Name: **Daniel Ratoff**

Respectfully submitted,

Frolund et al.

By

Derek J. Westberg

Attorney/Agent for Applicant(s)

Reg. No. **40,872**

Date: **10/23/2003**

PATENT APPLICATION

Sheet 1 of 5

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	200315385-1		
	APPLICANT		
	Fr lund et al.		
	FILING DATE	GROUP	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	10/440,531		Veitch et al.	
	1B	10/440,548		Frolund et al.	
	1C	10/440,570		Merchant et al.	
	1D				
	1E				
	1F				
	1G				
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	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	K. Amiri and G. A. Gibson and R. A. Golding, Highly concurrent shared storage, The 20th International Conference on Distributed Computing Systems (ICDCS 2000), April 10-13, 2000, Taipei, Taiwan, pp. 298-307, IEEE Computer Society, Los Alamitos, CA, 2000.
1R	H. Attiya, A. Bar-Noy, and D. Dolev, Sharing memory robustly in message-passing systems, Journal of the ACM, Volume 42, Issue 1, January, 1995, pp. 124-142, ACM Press, New York, NY, 1995.
1S	P. Dutta, S. Frolund, R. Guerraoui, and B. Pochon, An efficient universal construction for message-passing systems, EPFL Technical Report IC-TR-2000228, May 2002.

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2Q	S. Frolund, A. Merchant, Y. Saito, S. Spence, and A. Veitch, FAB: Enterprise storage systems on a shoestring, Proceedings of HOTOS IX: The Ninth Workshop on Hot topics in Operating Systems, Lihue, Hawaii, May 18-21, 2003, pp. 169-174, The USENIX Association, Berkeley, CA, 2003.
2R	G. R. Goodson, J. J. Wylie, G. R. Ganger, and M. K. Reiter, Decentralized storage consistency via versioning servers, Technical Report CMU-CS-02-180, School of Computer Science, Carnegie Mellon University, Pittsburg, PA, September, 2002.
2S	J. Kubiawicz, D. Bindel, Y. Chen, S. Czerwinski, P. Eaton, D. Geels, R. Gummadi, S. Rhea, H. Weatherspoon, W. Weimer, C. Wells, and B. Zhao, Oceanstore: An architecture for global-scale persistent storage, Proceedings of the Ninth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-IX), Cambridge, MA, pp. 190-201, ACM Press, New York, NY, November, 2000.

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3Q	L. Lamport, On interprocess communication, Dec. 25, 1985.
3R	E. K. Lee and C. A. Thekkath, Petal: Distributed virtual disks, Proceedings of the Seventh International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-VII), Cambridge, MA, pp. 84-92, ACM Press, New York, NY, 1996.
3S	N. A. Lynch and A. A. Shvartsman, Robust emulation of shared memory using dynamic quorum acknowledged broadcasts, Dec. 2, 1996..

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4Q	N. A. Lynch and A. A. Shvartsman, Rambo: A reconfigurable atomic memory service for dynamic networks, Distributed Computing: 16th International Conference, DISC 2002, Toulouse, France, October 28-30, 2002, Proceedings, pp. 173-190, Springer-Verlag Heidelberg, Heidelberg, Germany, 2002.
4R	D. Malkhi and M. Reiter. Byzantine quorum systems, October 16, 1998.
4S	J. S. Plank, A tutorial on Reed-Solomon coding for fault-tolerance in RAID-like systems, Software: Practice and Experience, September, 1997, Volume 27, Issue 9, pp. 995-1012, John Wiley & Sons, Limited, Hoboken, NJ, 1997.

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